

FIG. 1

(PRIOR ART)

N_{SAV} : Normal to Surface Adjacent to a Vortex
 N_{ME} : Normal to Mixing Element
 F : Direction of fluid flow
 : Centroid of mixing element

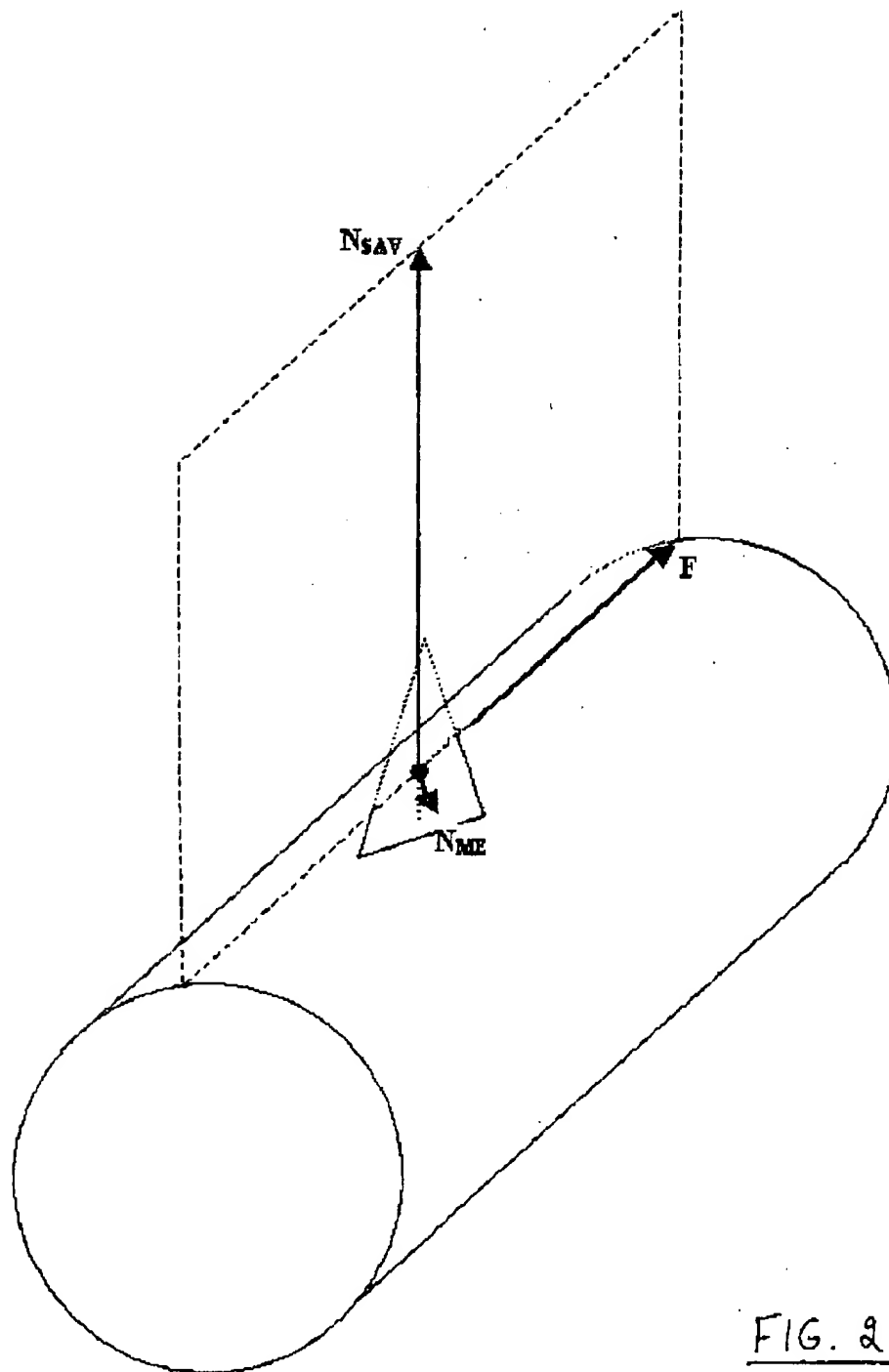


FIG. 2

N_{SAV} : Normal to Surface Adjacent to a Vortex
 N_{MDs} : Normal to Mixing Device Surface
 F : Direction of fluid flow
 \bullet : Centroid of mixing device

Figure 3

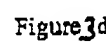
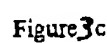
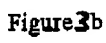


FIG. 4

FIG. 5

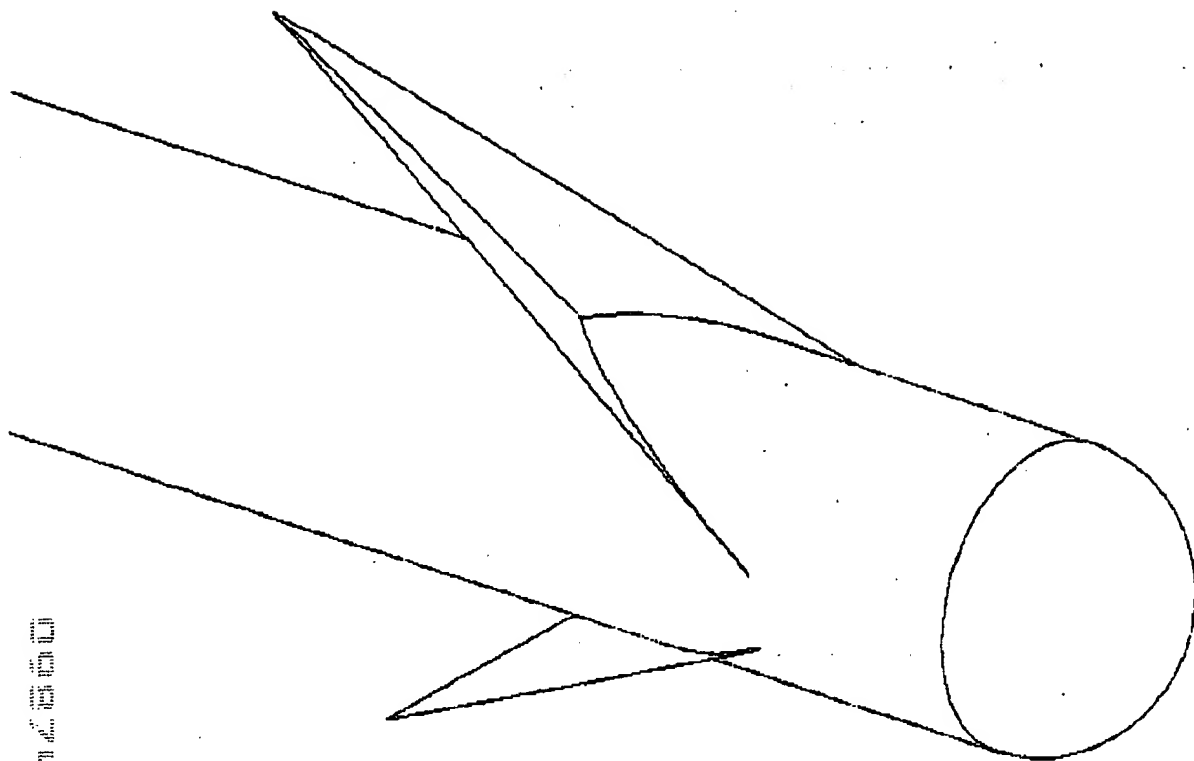


FIG. 5

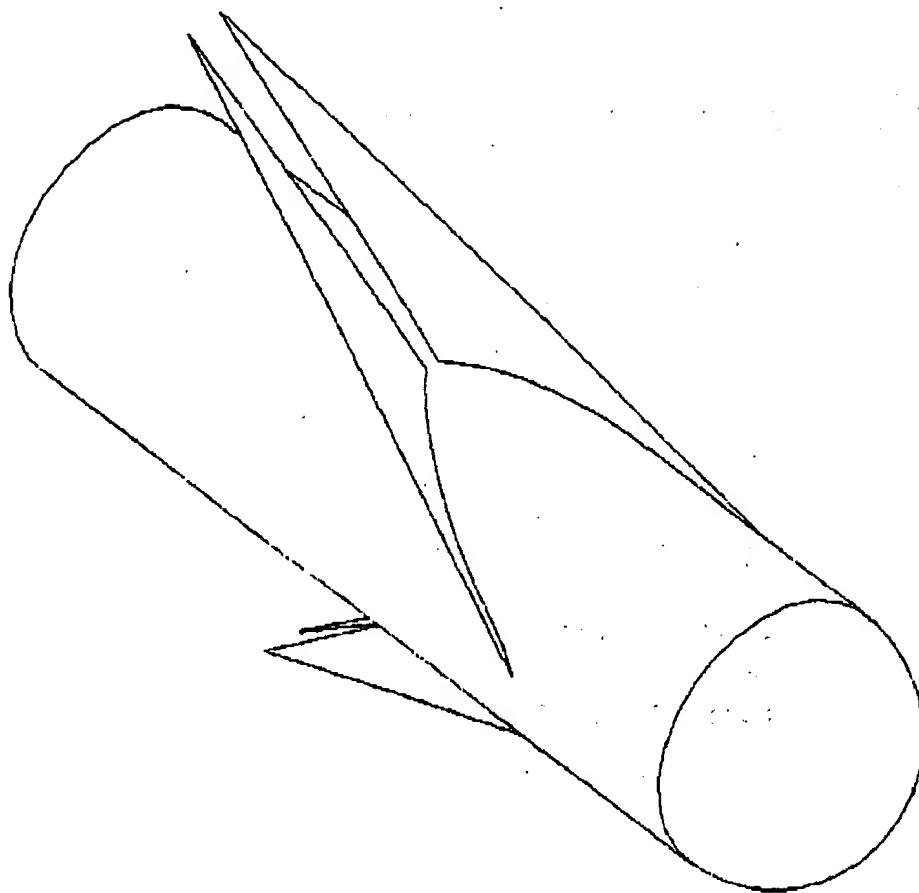


FIG. 6

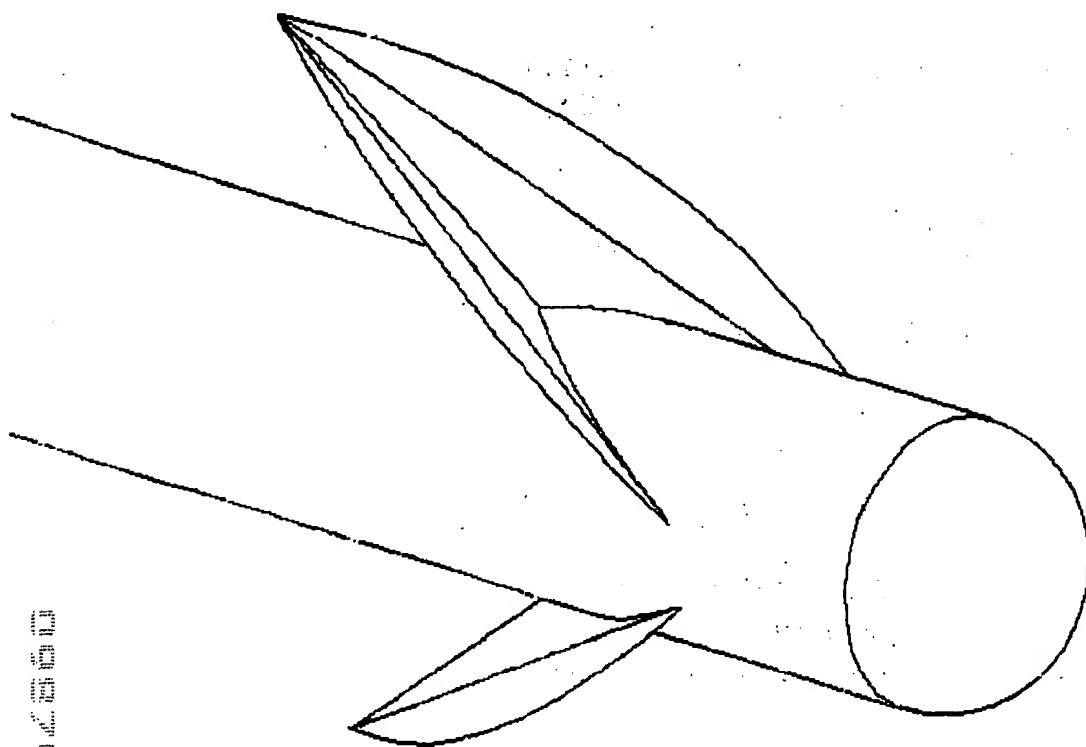


FIG. 7

FIG. 7

FIG. 8

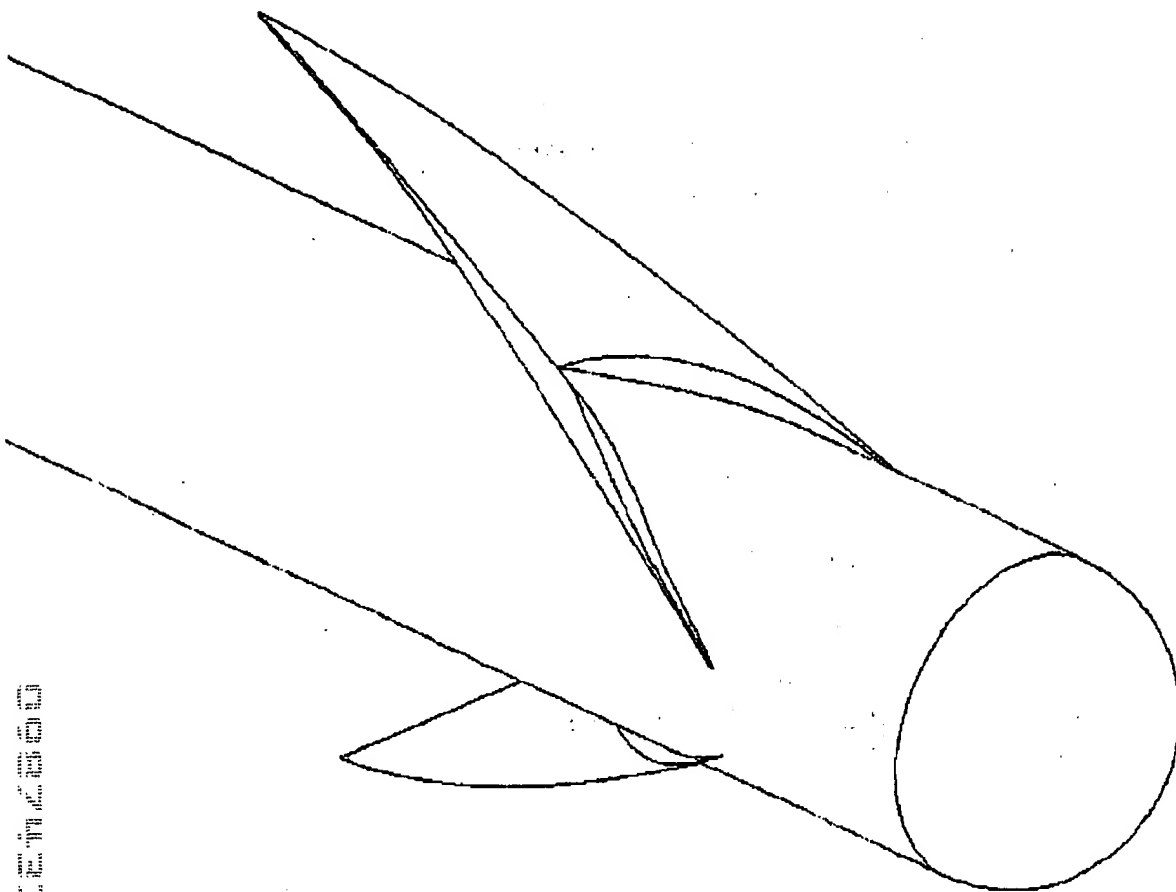


FIG. 8

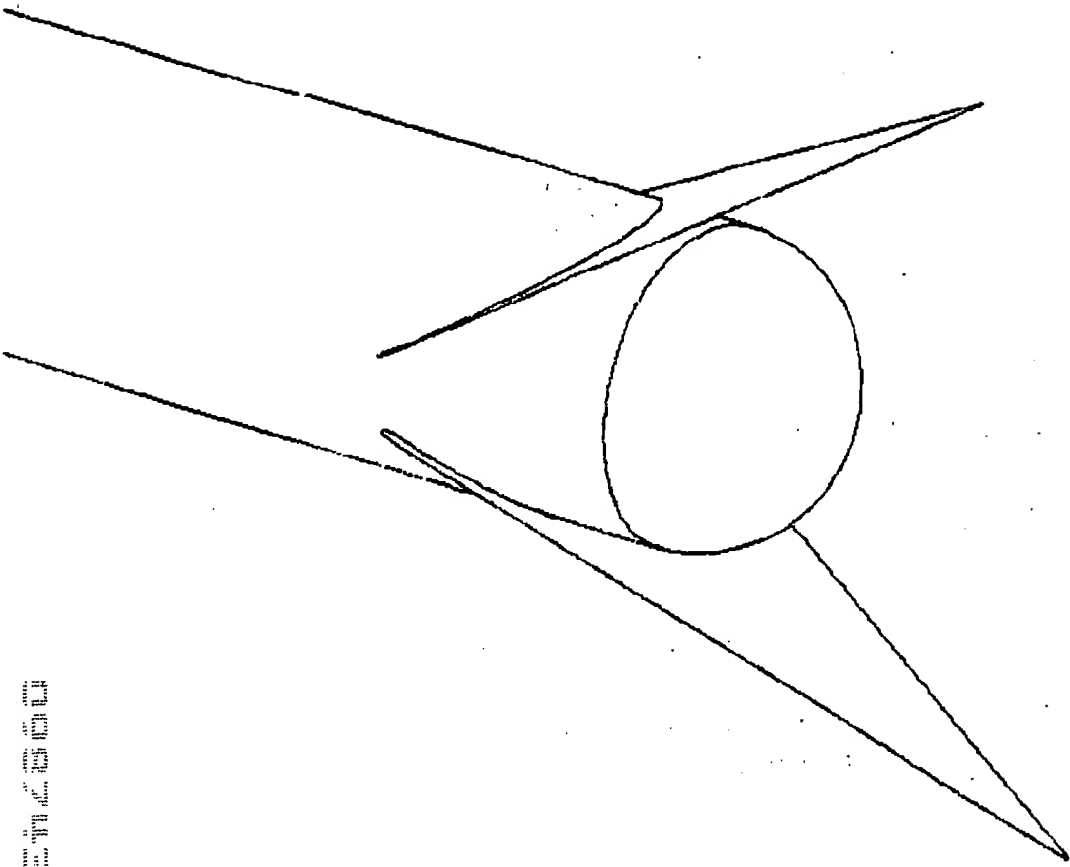


FIG. 9

FIG. 9

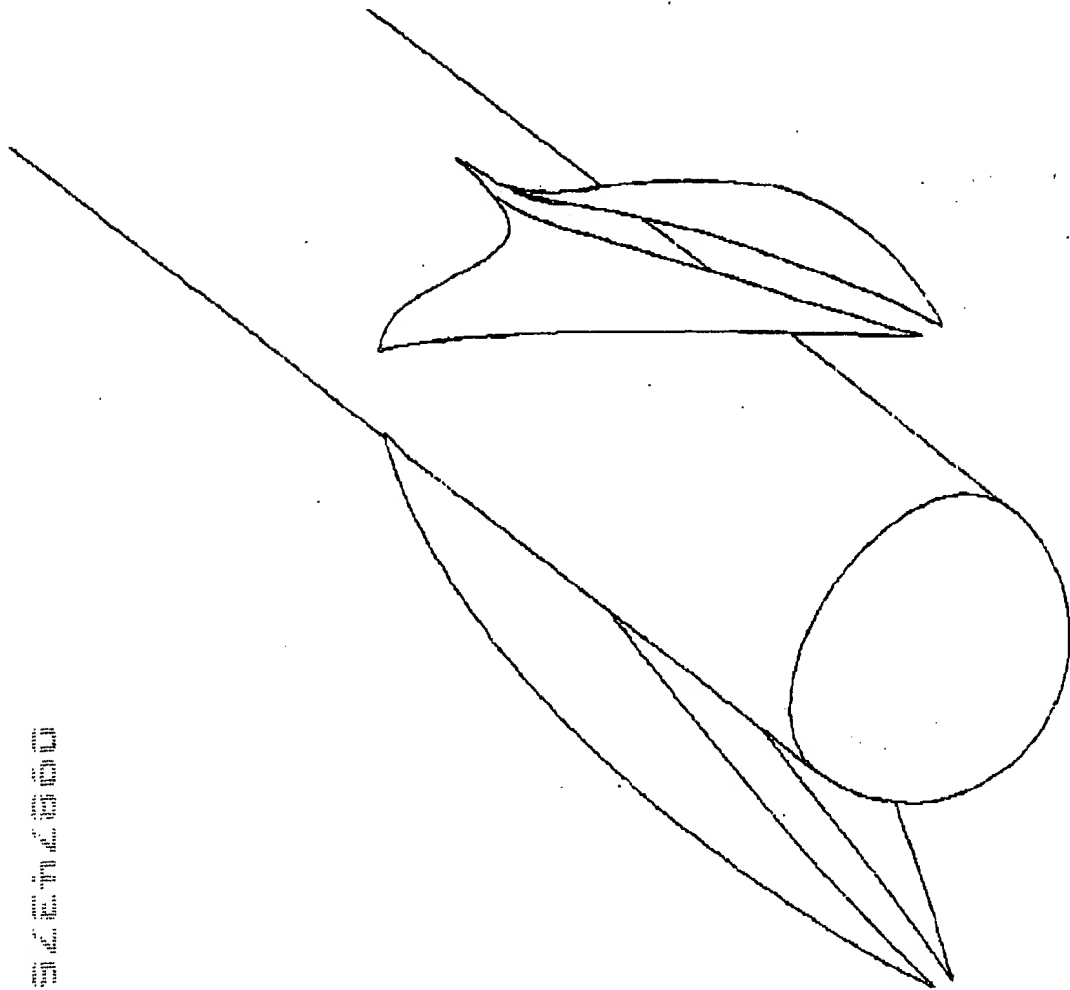


FIG. 10

FIG. 10

FIG. 11

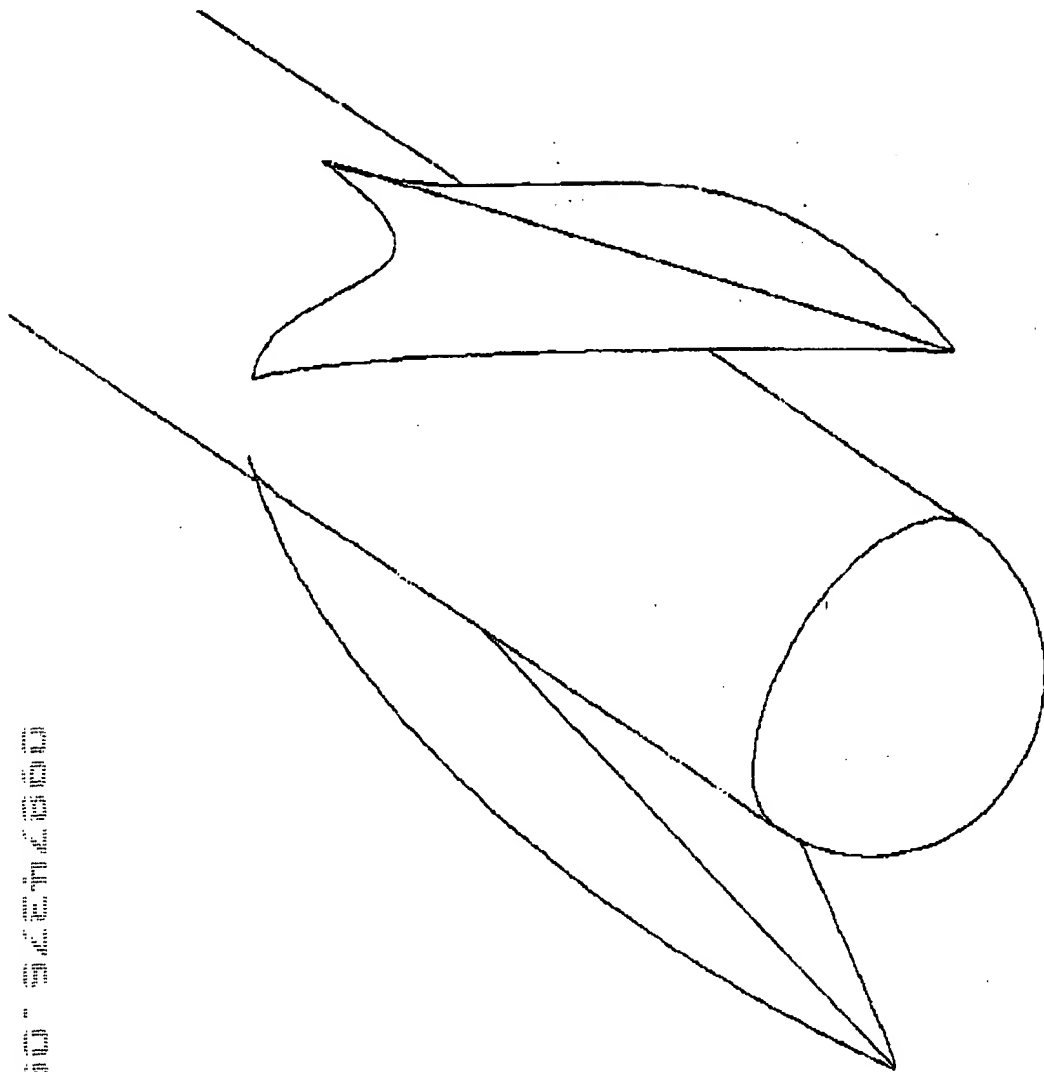


FIG. 11

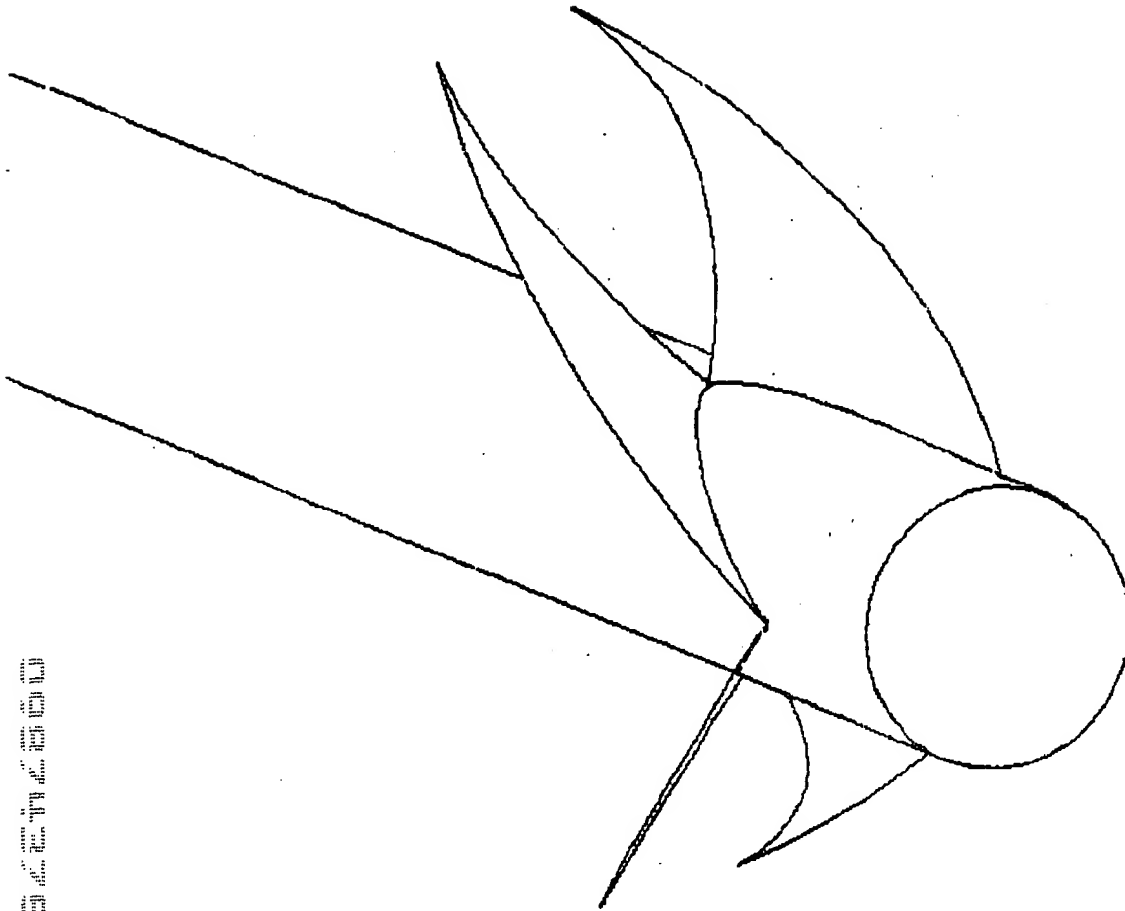


FIG. 12

FIG. 13

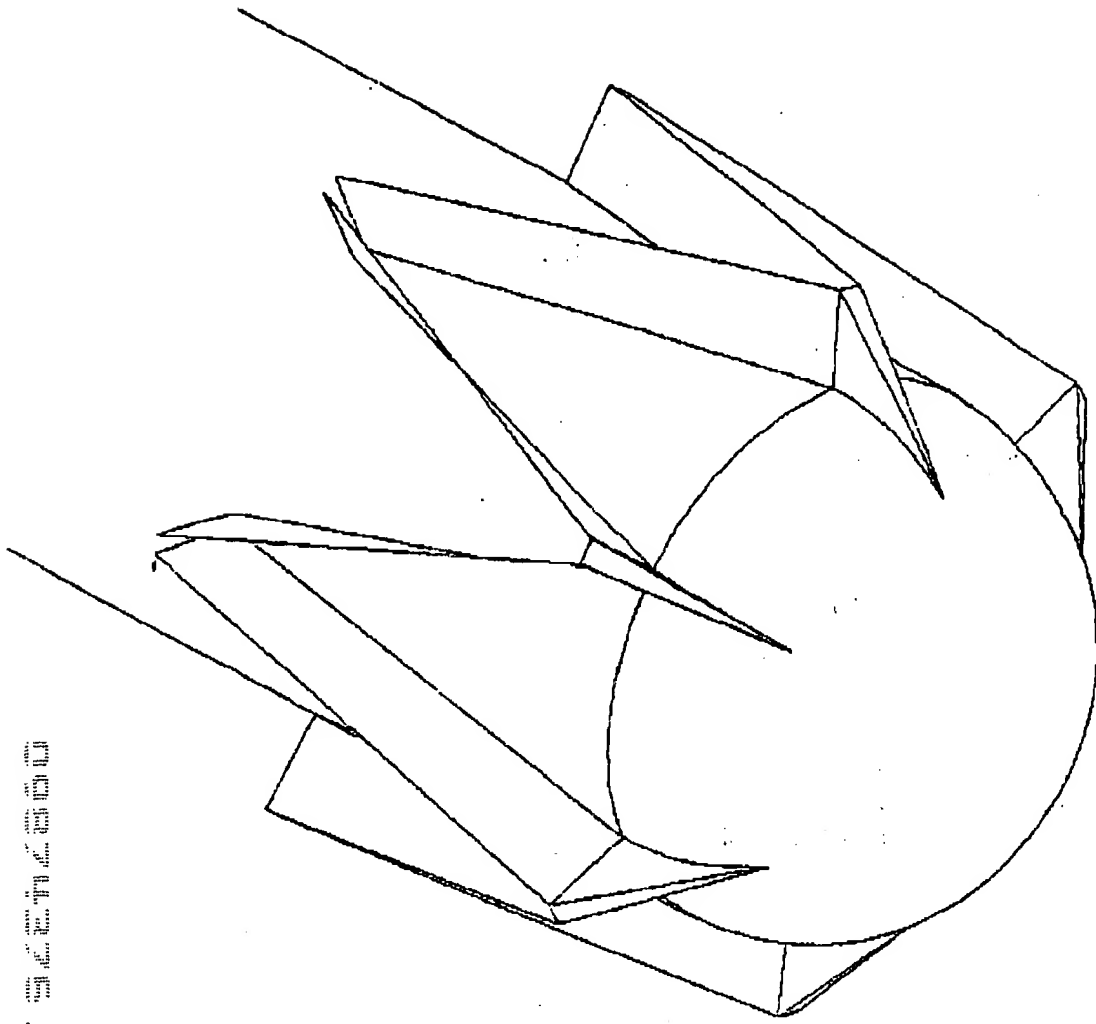


FIG. 13

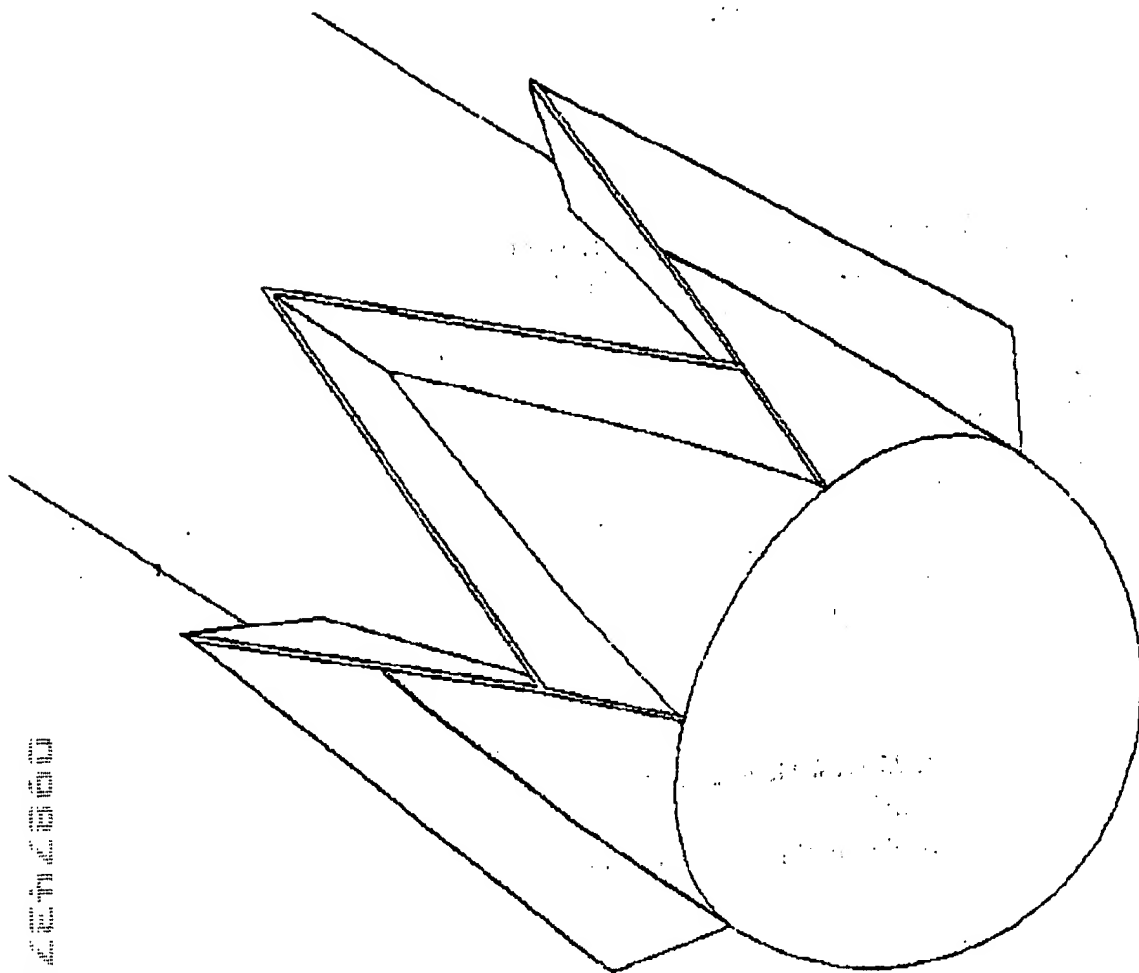


FIG. 14

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FIG. 16

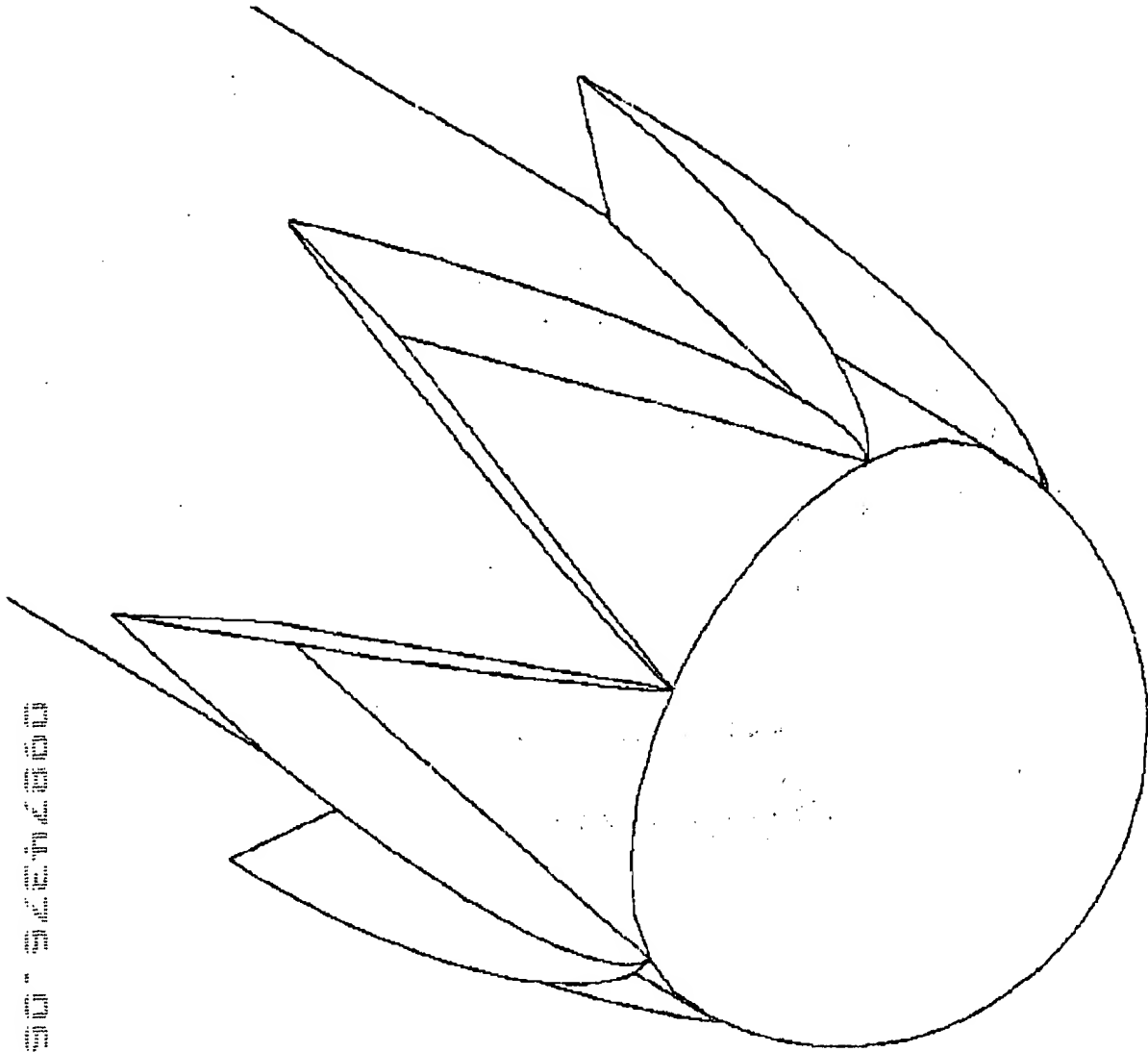
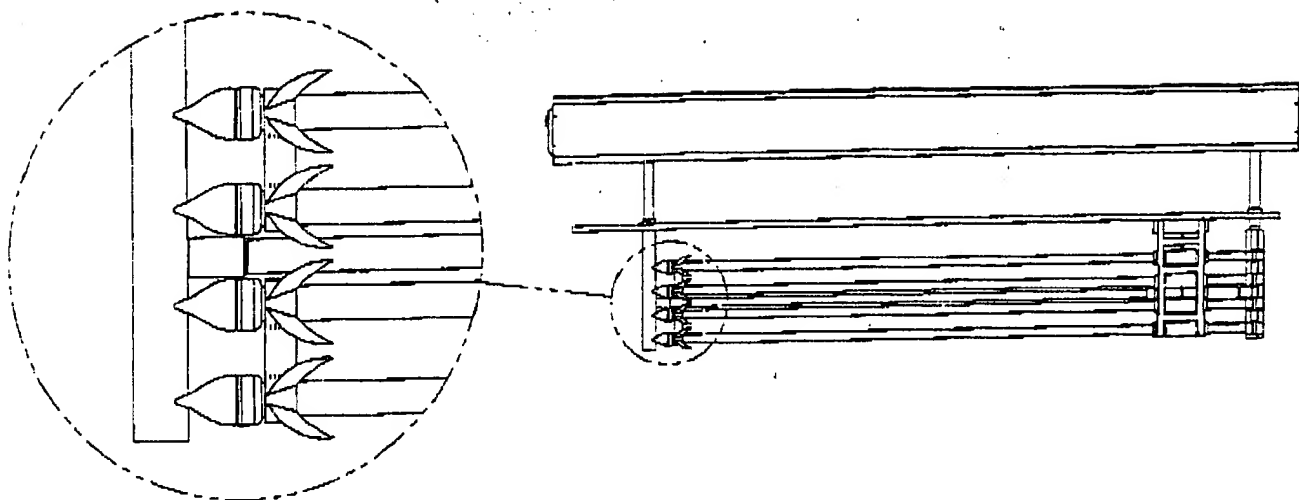


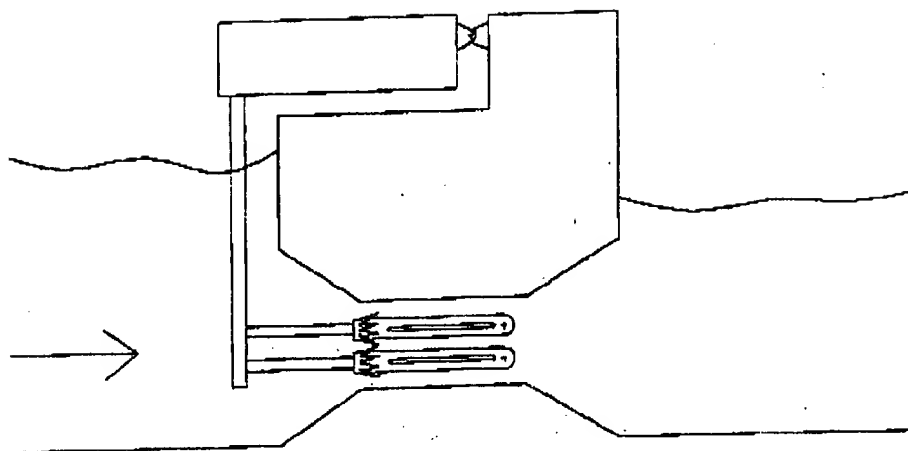
FIG. 16

Figure 17



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Figure 18b



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Figure 18c

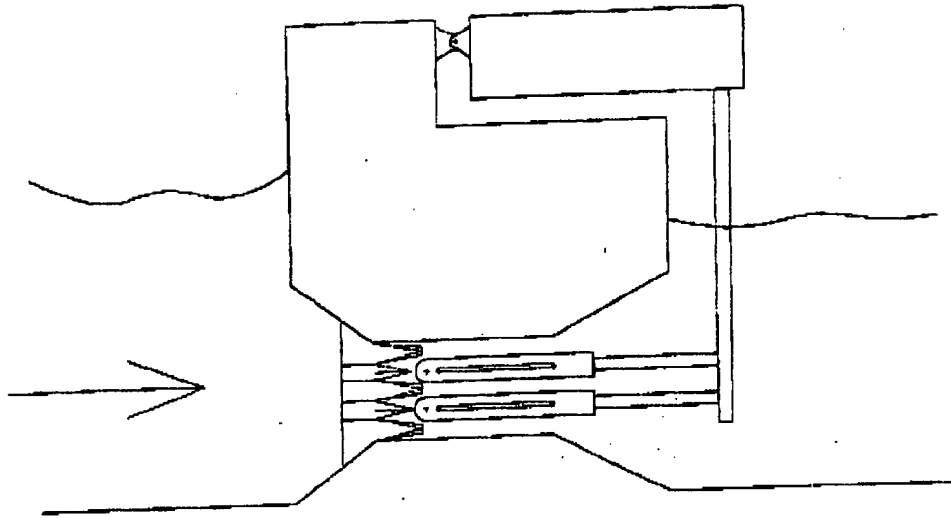


Figure 19

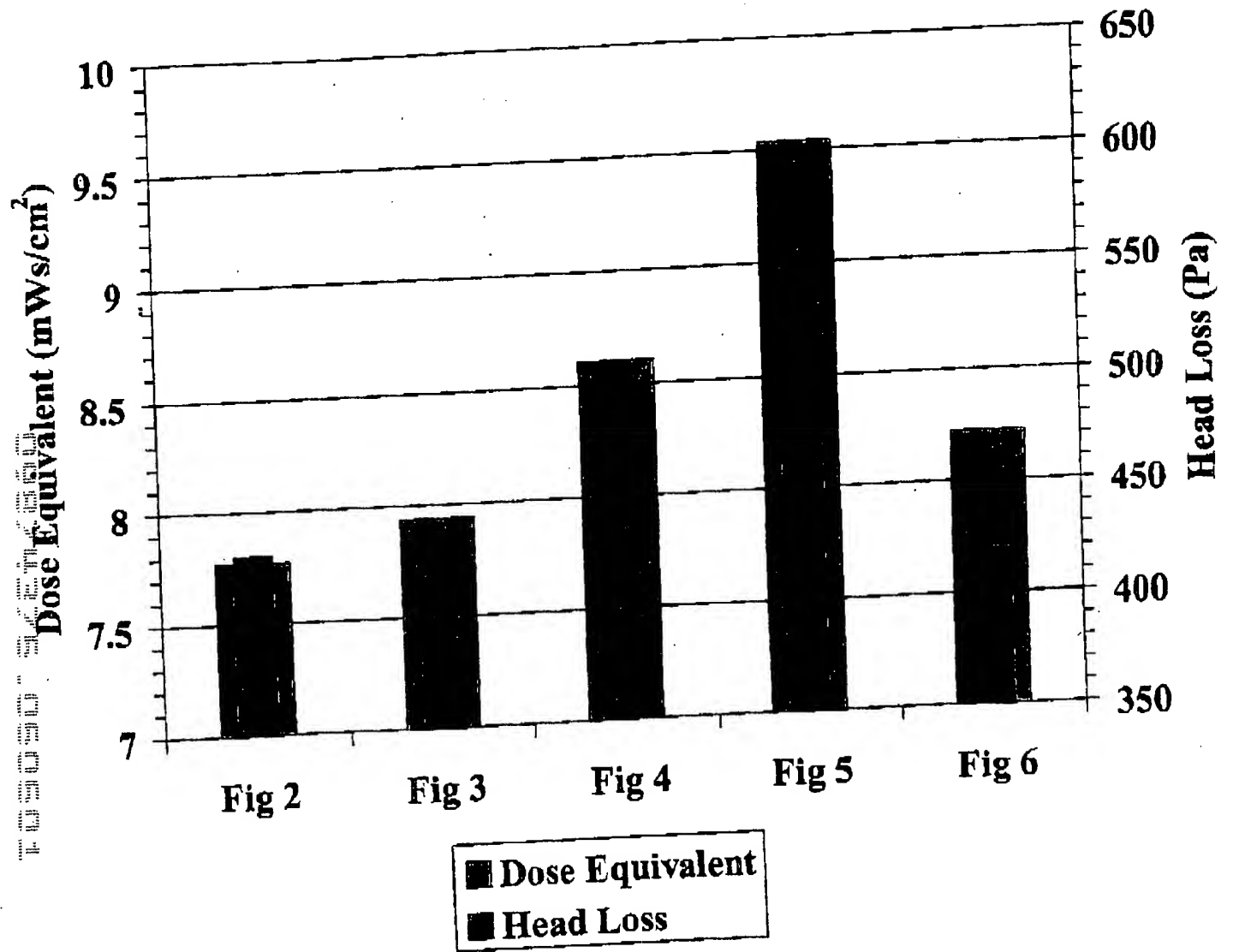


Figure 20

